



LANDAU
ASSOCIATES,
INC.

Geoenvironmental Engineering and Technologies

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Colbert P.4 v1

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SUPERFUND BRANCH

January 9, 1990

Mr. Neil Thompson
U.S. Environmental Protection Agency
Park Place Building
1200 Sixth Avenue
Seattle, WA 98101

RE: **PROGRESS REPORT
COLBERT LANDFILL RD/RA
DECEMBER 1989**

Presented herein is the December 1989 progress report for the Colbert Landfill RD/RA Superfund Project (Project), which was prepared by Landau Associates, Inc. (Landau), Spokane County's (County) engineering consultant. It addresses the reporting requirements specified in Section XI of the Project Consent Decree, including:

- A description of Remedial Action activities commenced or completed during the reporting period,
- Remedial Action activities projected to be commenced or completed during the next reporting period (through January 1990), and
- Any problems that have been encountered or are anticipated in commencing or completing the activities.

1.0 **ACTIVITIES COMMENCED/COMPLETED DURING REPORTING PERIOD**

Several activities were commenced and/or completed during the reporting period. Most of these activities are related to continuation of Phase I field activities. Specific activities commenced and/or completed during this period include:

- Well construction activities have been commenced, completed, and are ongoing at a number of Phase I monitoring well locations (refer to attached Site Plan, Figure 1):
 - The boring for the second monitoring well at Location CD-20 was completed to a total depth of about 165 feet below ground surface (BGS).
 - The boring for the first monitoring well at Location CD-23 was advanced to about 210 feet BGS (the anticipated total depth of boring is about 250 feet BGS). The Upper Sand/Gravel Aquifer was encountered at this location. As yet, no significant saturated aquifer unit has



been encountered in the Lower Sand/Gravel unit or Latah Formation. It is anticipated that two monitoring wells will be constructed at this location, and will be screened within the Upper Sand/Gravel Aquifer and the Lower Aquifer, respectively.

- The second and third monitoring wells at Location CD-41 were completed. The wells are screened in the Lower Sand/Gravel Aquifer from about 270 to 290 feet and 210 to 230 feet BGS, respectively.
- The third monitoring well at Location CD-42 was completed. The well is screened in the Lower Sand/Gravel Aquifer from about 205 to 225 feet BGS.
- The first monitoring well at Location CD-43 was completed. The well is screened at the base of the Lower Sand/Gravel Aquifer from about 380 to 400 feet BGS. Two additional monitoring wells will be constructed at this location.
- The borings for the second and third monitoring wells at Location CD-43 were completed to total depths of 280 and 225 feet BGS, respectively.
- Development of West System Phase I monitoring wells was initiated using air lift. Development was completed for 7 wells.
- A variance was requested from Ecology (and granted) for constructing 2.5-inch (nominal) diameter monitoring wells within 6-inch (nominal) diameter welded temporary steel casing.
- Site activities were suspended December 22 through January 1.

2.0 ACTIVITIES PROJECTED TO BE COMMENCED/COMPLETED DURING NEXT REPORTING PERIOD

As specified in the Schedule for Submittal of Deliverables, the next reporting period extends through January 1990. Anticipated activities for January include continuation of well construction activities, well development, and ground water sampling. Specific activities anticipated to be commenced/completed during the next reporting period include:

- Complete the second monitoring well at Location CD-20. The well will be screened in the Basalt Aquifer and the anticipated well depth is about 165 feet BGS (by late January).
- Complete the second monitoring well at Location CD-21. The well will be screened in the Lower Sand/Gravel Aquifer and the anticipated well depth is about 230 feet BGS (by late January).
- Complete the first monitoring well at Location CD-22. The screened zone will be selected based on geohydrologic conditions, once boring advancement has been completed (by mid January).

- Complete the first and second monitoring wells at Location CD-23. The Upper Sand/Gravel Aquifer well will be screened at about 90 feet BGS; the screened zone for the Lower Aquifer well will be selected based on geohydrologic conditions, once boring advancement has been completed (by late January).
- Complete the second and third monitoring wells at Location CD-43 (this will complete initial Phase I monitoring well construction for the West System). The wells will be screened in the Lower Sand/Gravel Aquifer and the anticipated well depths are about 300 and 230 feet BGS, respectively (by mid January).
- Complete development of West System Phase I monitoring wells (by mid January).
- Initiate development of East System Phase I monitoring wells (by mid January).
- Initiate and complete the first round of ground water sampling for the West System monitoring wells. Previously constructed Monitoring Wells CD-2(D), CD-3(L), and CD-5 will be sampled in addition to the Phase I West System monitoring wells (by late January).

3.0 ENCOUNTERED/ANTICIPATED PROBLEMS

A significant property access problem has been encountered. Glacier Park (formerly a subsidiary of Burlington Northern) is packaging all their surplus property in the Northwest, including the abandoned railroad right-of-way paralleling Highway 2 and adjacent properties. It is anticipated that this package will be offered for sale in June 1990, and will sell for about \$2 billion. Due to its size, the sale could take a year or more to complete once a buyer is found. In the interim, Glacier Park is not leasing, selling, or granting easements to any of their property.

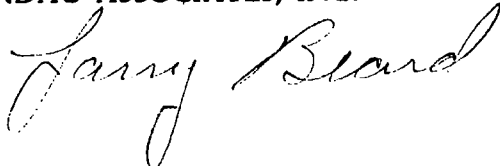
A number of Phase I and Phase II components are planned for construction on Glacier Park property including a South System monitoring well, a West System pilot well, West System (Phase II) extraction wells and conveyance piping, and East and West System (Phase I and Phase II) discharge piping. It is anticipated that access for many of these components can be obtained from the Washington State Department of Transportation (WSDOT), once they have secured the property from Glacier Park (by purchase, or through condemnation) for the widening of Highway 2. However, it is unclear whether the timing of WSDOT's property acquisition is compatible with the Project schedule. Consequently, delays to Phase I pilot studies and Phase II construction (and operation) may occur.

* * * * *

This progress report describes the major Remedial Action activities commenced or completed during the reporting period, anticipated to be commenced or completed during the next reporting period, and any problems encountered or anticipated. As such, there are secondary and peripheral activities associated with these major tasks that are not described herein. If clarification is required for any of the activities presented in this progress report, or if additional information is desired for secondary or peripheral activities, please contact me or Dean Fowler (Spokane County).

Very truly yours,

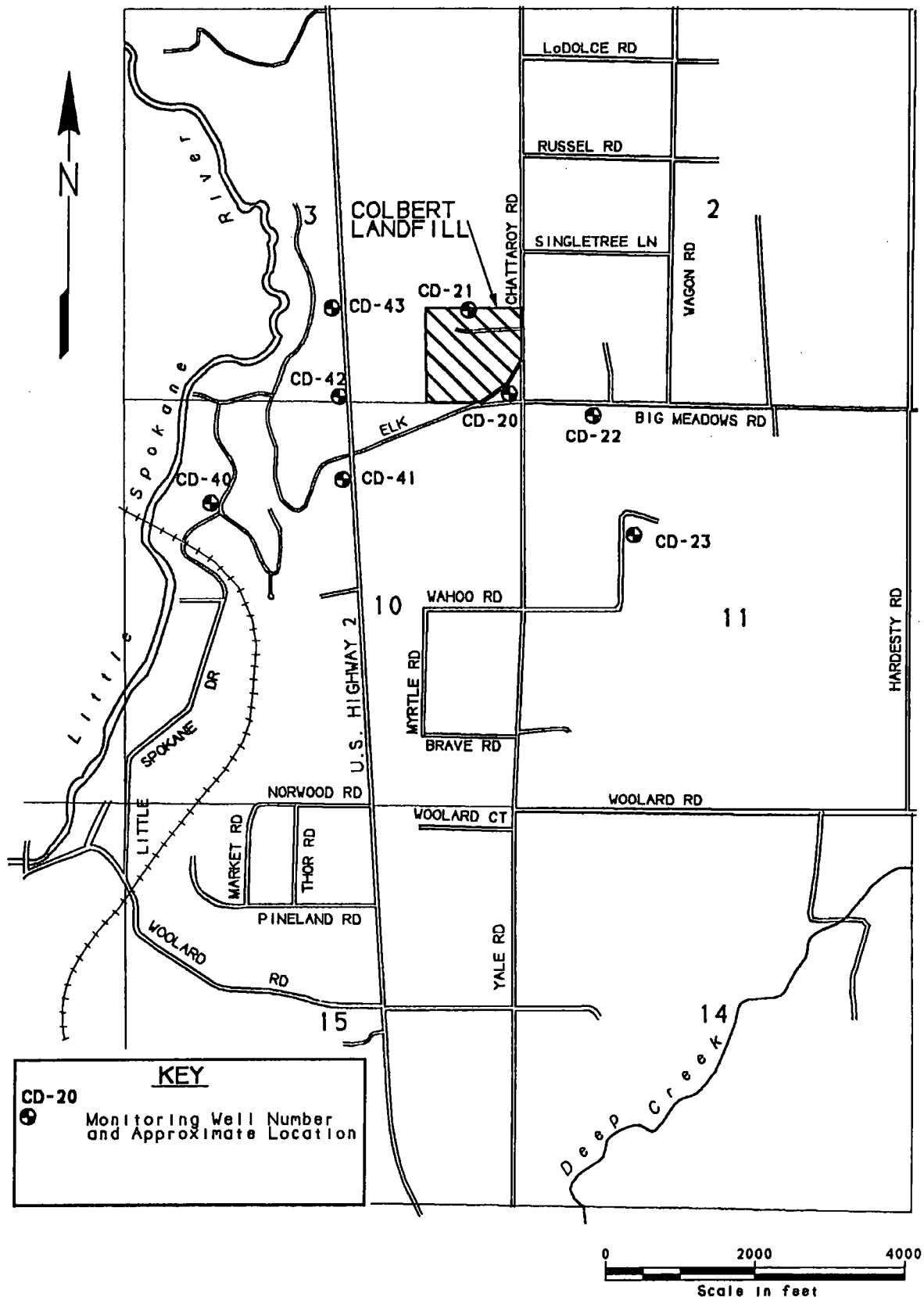
LANDAU ASSOCIATES, INC.

By: 

Lawrence D. Beard, P.E.
Project Manager

LDB/wk
No. 124-01.60
attachment

cc: Mr. Mike Blum
Washington State Department of Ecology
Mr. Dean Fowler
Spokane County
Mr. Lyle Diedieker
Ecology and Environment



LANDAU ASSOCIATES, INC.

Site Plan

Figure 1